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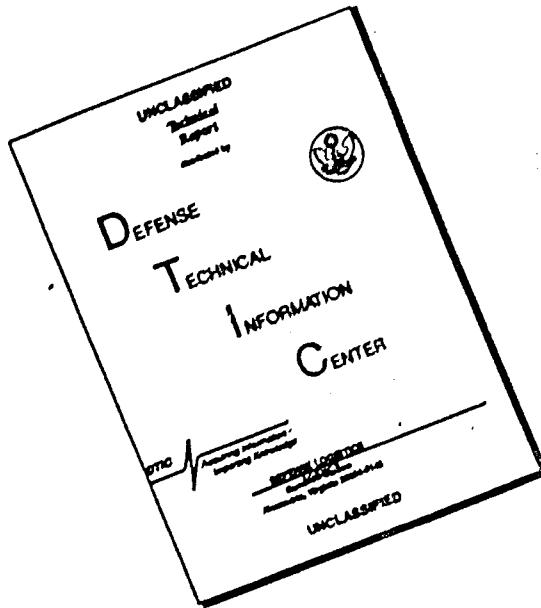
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**DEPARTMENT OF THE ARMY**  
**OFFICE OF THE ADJUTANT GENERAL**  
**WASHINGTON, D.C. 20310**

IN REPLY REFER TO

AGDA (M) (22 Apr 70) FOR OT UT 701105 28 April 1970

SUBJECT: Operational Report - Lessons Learned, Headquarters, 222d Aviation Battalion, Period Ending 31 January 1970 (U)

SEE DISTRIBUTION

1. Subject report is forwarded for review and evaluation in accordance with paragraph 4b, AR 525-15. Evaluations and corrective actions should be reported to ACSFOR OT UT, Operational Reports Branch, within 90 days of receipt of covering letter.

2. Information contained in this report is provided to insure appropriate benefits in the future from lessons learned during current operations and may be adapted for use in developing training material.

BY ORDER OF THE SECRETARY OF THE ARMY:

*Kenneth G. Wickham*

KENNETH G. WICKHAM  
Major General, USA  
The Adjutant General

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DEPARTMENT OF THE ARMY  
Headquarters, 222d Aviation Battalion (Combat)  
APO San Francisco 96530

AVB/CA-EC

13 February 1970

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion (Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

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1. (C) Sectional Operations: Significant Activities

a. Mission: The mission of the Battalion remained the same throughout the reporting period, that of providing combat and combat support with aviation assets to United States and other Free World Forces in the Republic of Vietnam.

b. Organization: The organization of the Battalion did not change during the period. Several MTOE changes were received for assigned and attached units. These changes constituted only minor and insignificant equipment authorizations. No reorganization of units was required. (See Inclosure 1 for the Organizational Structure).

c. Significant Personnel Changes:

(1) S2, 222d Aviation Battalion (Cbt)

Date: 5 November 1969  
Outgoing: WILLIAMS, Melvin Jr., Cpt, 047-34-8389  
Incoming: SEALE, Leopold K., Cpt, 261-84-5463

(2) S3, 222d Aviation Battalion (Cht)

Date: 19 November 1969  
Outgoing: THOMAS, Benjamin G., Maj, 521-44-3865  
Incoming: DANIELSON, James D., Maj, 477-36-4311

(3) Commanding Officer, 273rd Aviation Company (Hvy Hel)

Date: 22 November 1969  
Outgoing: WILHELM, Robert S., Maj, 361-30-6268  
Incoming: SILVA, Warren R., Maj, 019-26-2073

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Inclosure

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(Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2) (U)

(4) Commanding Officer, 117th Aviation Company (Aslt Hel)

Date: 1 December 1969

Outgoing: AVERY, Westley P., Maj, 237-62-2607

Incoming: HUSTON, Richard J., 279-26-8229

(5) CSM, 222d Aviation Battalion (Cbt)

Date: 20 January 1970

Outgoing: ORR, Evert E., CSM, 165-22-1934

Incoming: CROLEY, Thomas D., CSM, 416-40-5436

d. Unit Strength as of 31 January 1970:

(1) Military:

SUBORDINATE UNIT	OFFICER AUTH ACTUAL	WARRANT OFFICER AUTH ACTUAL	ENLISTED AUTH ACTUAL	TOTAL AUTH ACTUAL
HHC, 222d Avn Bn (Cbt)	19 15	3 8	85 110	107 133
117th Avn Co (Aslt Hel)	19 16	51 44	218 214	288 274
195th Avn Co (Aslt Hel)	19 19	51 46	218 224	288 289
240th Avn Co (Aslt Hel)	19 17	51 47	218 220	288 284
273d Avn Co (Hvy Hel)	16 3	16 22	97 102	129 127
93d Med Det	1 1	0 0	7 7	8 8
772d Med Det	1 1	0 0	7 7	8 8
315th Afld Sv Det	1 1	0 1	15 15	16 16
87th QM Det	0 0	0 0	8 5	8 5
652d TC Det	1 1	1 0	57 46	59 47
478th Aslt Spt Hel Co (Hvy) (Plat Atch from 1st Cav)	4 0	5 0	13 1	22 1

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(2) Civilians:

SUBORDINATE UNIT	DAC AUTH ACTUAL	VN AUTH ACTUAL	3d NAT'L AUTH ACTUAL	TECH REP AUTH ACTUAL
HHC, 222d Avn Bn (Cbt)	0	0	14	13
117th Avn Co (Aslt Hel)	0	0	17	17
195th Avn Co (Aslt Hel)	0	0	7	7
240th Avn Co (Aslt Hel)	0	0	2	2
273rd Avn Co (Hvy Hel)	1	1	0	0
772nd Med Det	0	0	1	0
93rd Med Det	0	0	2	2

e. Aircraft Status as of 31 January 1970: (See Inclosure 2).

f. Operational Results for the Period are Included in Inclosure 3.

g. Awards and Decorations: Awards recommended and received by individuals of this Battalion during 1 November 1969- 31 January 1970 as indicated below:

AWARD	NUMBER RECOMMENDED	NUMBER RECEIVED
Legion of Merit	1	0
Silver Star Medal	4	4
Soldier's Medal	2	1
Distinguished Flying Cross	67	39
Bronze Star Medal	110	52
Air Medal "V"	95	54
Basic Air Medal	230	156
Oak Leaf Cluster to Air Medal	50	25

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g. Awards and Decorations: (Continued)

<u>AWARD</u>	<u>NUMBER RECOMMENDED</u>	<u>NUMBER RECEIVED</u>
Army Commendation Medal "V"	22	15
Army Commendation Medal	201	164
Purple Heart	12	12

h. Personnel Gains and Losses During the Period: Following reflects the personnel turbulence experienced during the period:

	<u>GAINS</u>	<u>LOSSES</u>
Officers	20	29
Warrant Officers	43	56
Enlisted	323	292

i. R & R Data: Quotas Received and Filled as indicated below:

<u>SITE</u>	<u>QUOTAS RECEIVED</u>	<u>QUOTAS UTILIZED</u>
Hawaii	75	74
Sydney	48	45
Hong Kong	38	16
Bangkok	41	19
Taipei	27	21
Tokyo	17	5
Singapore	13	7
Manila	8	2

j. Casualty Information: Casualties experienced during the period are as follows:

(1) Injured - Non Hostile 11

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j. Casualty Information: (Continued)

(2) Wounded in Action:	10
(3) Killed - Non Hostile	0
(4) Killed in Action:	1

\* HONOR ROLL \*

Private First Class Edward R. SMILEY, Jr., 158-40-6815, 195th Aviation Company (Aslt Hel) killed in action 4 December 1969.

k. Enemy Action Against Bearcat: Following is a synopsis of enemy action against Bearcat during the reporting period:

(1) There were no standoff mortar/rocket attacks during the reporting period.

(2) Enemy interdiction of Highway 15 and the West Access Road to Bearcat occurred twice during the reporting period, however, the road was closed for only a short period each time.

l. Ammunition Expenditures: See Inclosure 4.

m. Schooling (AARTS Courses): Following quotas were received and filled during the period:

(1) Officer:

(a) Officer Armament	2
(b) UH-1 IP School (1st Bde)	1
(c) FACAF Life Support School	3

(2) Enlisted:

(a) AH-1G/UH-1C Helicopter Repair	7
(b) UH-1D/H Helicopter Repair	3
(c) T-53-L-11 Engine	2

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m. Schooling (NIRTS Courses): (Continued)

(d) T-53-L-13 Engine	4
(e) Enlisted Armament No 1	3
(f) Tech Inspector	2
(g) Tech Supply (PLL)	2
(h) Audio-Visual Projectionist	1

n. Aviation Safety: 3 aircraft accidents occurred during the period while flying 23,758 hours. The accidents described below dinped the accident rate of the Battalion to 12.6 per 100,000 flying hours.

(1) On 12 November 1969 a UH-1C gunship had an engine failure while at a low airspeed and altitude over a thickly overgrown area. The pilot autorotated to the best area, but the aircraft sustained major damage.

(2) On 17 January 1970 a UH-1H caught the right-rear skid shoe on a PSP pad while picking up to a hover. When the pilot attempted to set the aircraft down the PSP panels remained in an upright position and caused major structural damage to the underside of the aircraft.

(3) On 17 January 1970 a UH-1C gunship apparently experienced complete tail rotor failure while at a low altitude. The complete tail rotor assembly separated from the aircraft causing an extreme out of balance condition. The pilot attempted to keep the aircraft under control and entered autorotation. The aircraft initially hit a tree and then landed extremely hard resulting in major damage.

o. Chaplain's Activities: Worship services and troop visitations continued to be emphasised throughout the period. During the quarter 156 Catholic and Protestant opportunities for worship as well as 1442 visits to troop areas were conducted. 23 visits were made to hospitals and stockades. Other activities included:

(1) 144 men were counseled during the period. Counseling continues to receive emphasis and is of primary concern.

(2) As required all replacement and rotating enlisted personnel were interviewed by the Chaplain.

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(3) Lay Protestant study groups were started in the Bearcat, Long Thanh and Long Binh areas. Religious films by the layman in the company areas continued to draw interest of the men.

(4) Supervised visits were made to orphanages by Chapel groups.

(5) Character guidance attendance remained above the 90% present for duty strength.

(6) Memorial services were conducted for the 195th Aviation Company (Aslt Hel).

(7) Continuing to assist the education program after helping to establish the Education Center in Bearcat. Introduced 5 men to the University of Maryland extension resident program. Engaged in the resident instruction phase of high school GED program.

(8) Orphanages: As stated in the last ORLL, the Vietnamese Government is reducing the number of orphanages. American forces are reducing their strength in Vietnam. In the future more and more emphasis will be placed on eliminating orphanages by establishing foster homes and enrolling children in day schools.

p. PIO: The information continued to provide the required news and photo coverage of awards and decorations, safety, special events, civic affairs activities and combat activity. Both local and national news media were utilized in publicizing the Battalion's activities during the past three months. The November-January period produced 147 home town news releases as compared to the August-October output of 180. Steps have been taken to improve this figure and reverse the downward trend. Approximately 30 news releases and feature stories were released by the Battalion Information Office to the 12th Aviation Group PIO office and 1st Aviation Brigade PIO. A number of the news stories eventually were published in military and civilian enterprise newspapers in the United States. Approximately 800 photographs, including awards and decorations, promotions, changes of command, accident safety and normal news photo were produced during this period.

q. SIGNAL: The Signal Section continued to provide the required communications support to the Battalion during this period. Concepts of operations were changed to implement Nestor Equipment usage, and to begin to employ the Battalion's HF RATT capabilities. Communications Personnel continued to be in short supply. Critical shortages are

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in Communications Chief or 31G40 personnel and Field Wireman MOS 36K20. Due to this personnel shortage communications personnel were required to work longer hours in order to accomplish their mission. Battalion Headquarters communications personnel attempted to compensate for personnel shortages by conducting more frequent assistance visits, and in some cases, training of incoming personnel.

r. Operations:

(1) General

(a) The Battalion continued daily support of operations with tasks including combat assault, direct support and other combat support missions each of the ninety-two reporting days. Missions included airlift of troops, equipment, supplies, vehicular airlift, administrative, command and control and artillery weapons and engineer equipment displacement. Other support provided was that of providing light and gunship support (Night Hawk) to units in contact, reconnaissance, surveillance and lighting PZs for Dustoff operations. Helicopter gunships also played an active role throughout the period by delivery of live ordnance upon enemy positions in support of friendly ground force operations. The normal mission profile for UH-1 helicopters for the Battalion remained at 36 troop carriers and 12 gunships. An average of three CH-54A helicopters were committed throughout the period in support of III and IV Corps.

(b) On 18 December 1969, a major stand down day, the 240th Aviation Company (Aslt Hel) received a scramble from AME. This is a day in which a minimum number of missions are flown and maintenance is performed on remaining aircraft. Upon receipt of this alert, the 240th Aviation Company (Aslt Hel) was prepared to launch all flyable aircraft in one (1) hour. Other missions of this type have been accomplished in the Battalion with similar reaction time.

(c) Due to increased enemy activity and intense and continuous small arms automatic weapons fire in the LZs and throughout their entire operational area, the 195th Aviation Company (Aslt Hel) has implemented the following changes in their tactics; utilization of dummy drop points which confuses the enemy and prevents him from pinpointing their intended operational area, use of night para-drops, larger landing zones being selected expediting both the dropping off of troops and aiding in a rapid departure. Due to change in activities, Headquarters, USARV, ATTN: R & D has been requested to design a night landing devise that has the capabilities of penetrating darkness to give

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the pilot an overall view of the landing zone without any lighting instrument or other means that would give away the position of the aircraft to the enemy.

(2) Letter of Understanding

(a) On the 13th of January 1970, the 222d Aviation Battalion (Combat) was assigned the mission of implementing the provisions of the MEMORANDUM of UNDERSTANDING between the Commanding General, Royal Thai Forces, Vietnam and the Commanding General, 1st Aviation Brigade (Inclosure 6). This implementation was to permit pilots of the Royal Thai Forces, Vietnam to maintain flight proficiency in the UH-1D/H model helicopter and gain experience in U.S. Army Aviation Doctrine and Techniques. On the 16th of January 1970 an SOP was written establishing the procedures to be followed for the activation of this program. RTAVF aviators were permitted to fly UH-1D/H model helicopters of the Battalion in accordance with USARV Rules, Regulations and Policies applicable to USARV aviators. The Commanding Officer, 222d Aviation Battalion (Combat) controlled, monitored and maintained a record of RTAVF aviators. A period of standardization instruction was conducted beginning 30 January 1970. All RTAVF pilots were checked for proper security clearances. The Battalion received the names of nine RTAVF pilots who had accumulated a total of 21,667.30 hours and had received training in numerous type aircraft: Fixed wing, H-55C, KS-4, OH-13, OH-2, and UH-1 helicopters. A request for waiver was submitted and approved for two of the Thai pilots. Neither pilot had received any type of formal instruction in the UH-1D/H helicopter in the USA. At present we have two RTAVF pilots actively participating in combat assault missions with the 222d Aviation Battalion (Cbt).

(3) Recovery of CH-54

(a) At 1305 hours, 13 January 1970, the 273rd Aviation Company (Hvy Hel) flight operations received a message from II Field Forces Army Aviation Element (AAE) that CH-54A 67-18429 had declared a "Mayday" and was down at coordinates WS 2505. U.S. Air Force jet fighters and U.S. Army helicopter gunships were scrambled to cover the site. Further information relayed to 273rd flight operations from Paddy Control stated that the aircraft was on the ground with no apparent damage to the aircraft and no injuries to the crew. Another message from Paddy stated the aircraft had blown an "O" ring on the transmission oil filter and required a new "O" ring and 13 gallons of SATO 35 transmission oil. At 1420 hours, Major Silva, Commanding Officer, CWO Bean, air maintenance technician, and SSG Keller, aircraft

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(Cont) for Period Ending 31 January 1970 RCS CSPOR-65 (R)(U)

maintenance supervisor, departed Sanford AAF, Long Binh with the requested items in a UH-1H and arrived at the downed aircrafts location, 112 nautical miles southwest of Long Binh, at 1600hours. Inspection of the aircrafts transmission revealed numerous large steel chips in the transmission oil filter plus large amounts of finely ground brass in the transmission oil which was all over the rear deck of the aircraft. The large amount of metal indicated severe internal damage to the transmission. A decision was made that the aircraft was unsafe to fly and would have to be extracted. Coordination was made with Headquarters, 165th Aviation Group (Combat) located at Can Tho and ground security was provided by an armored cavalry troop from the 164th Aviation Group (Combat). At 1630 hours, Major Silva, CWO Bean and SSG Keller departed the aircraft site, along with crewmembers of aircraft 429 to return to Sanford AAF and start planning for the extraction the following day.

(b) At 1930 hours 13 January 1970 at 273rd flight operations, a planning conference was held with key members of the unit present. The aircraft commander, CWO George Gagnon, and pilot, CWO Paul Eilers, for the recovery aircraft began their mission planning to include flight time from Sanford AAF to Roc Soi (WS 1400) where they would stand-by until needed at the recovery site, route of flight from the recovery site back to Sanford AAF to insure that fuel and airfields were available to make each leg of the flight, and forecast winds for the next day. At the same time the aircraft maintenance personnel were deciding on the number of personnel and type skills that would be required to accomplish the mission of reducing the aircraft weight to approximately 16,500 pounds, by removing specific parts. The work party was decided and at the same time a firm list of components to be removed was made. Based on the components to be removed, a list of special tools and equipment was drawn up, located, and assembled in the 273rd hangar. Once the planning had progressed to this point the Operations Officer made a request for a CH-47 and UH-1D/H for an 0700 departure the following morning and began contacting the various airfields along the route back to Sanford AAF to alert them of the fact that one CH-54 would be stopping there with another CH-54 slung underneath it. He then coordinated pre-arranged parking locations and rapid refueling at each airfield. This completed the joint planning meeting and the remainder of the night was spent assembling the tools and equipment needed, rechecked weight and balances of each component to be removed, final flight planning by the crew of the recovery aircraft, and coordination with the various airfields that would be involved in the flight back.

(c) At 0700 hours, 14 January 1970, the recovery team, with

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special tools and equipment, departed Sanford AAF in a CH-47 for the recovery site. At the same time, Major Silva and LTC Gerald M. Okarski, 222d Aviation Battalion (Cbt) Commanding Officer, departed Sanford AAF for Can Tho in a UH-1D. The stop at Can Tho was made to brief the S-3 164th Aviation Group (Cbt) on the plans made the previous night, arrange for gunship cover during the extraction and secure a 164th Aviation Group (Cbt) SOI to be used if needed while operating in their area. Following this brief stop the two commanders proceeded directly to the recovery site. As soon as the CH-47 landed at the recovery site, the tools and equipment were off loaded and several tasks were started simultaneously. The CH-54 had landed with 8,000 pounds of JP-4 fuel on board so immediately the de-fueling hoses were attached and de-fueling began. At the same time two individuals started removing the tail rotor blades, while two other men started removing the engine air particle separators (EAPS), and a third pair began disconnecting the control rods and nerves in preparation for removing the main rotor head with the blades still attached. As soon as the tail rotor blades and EAPS had been removed and secured a safe distance away from the aircraft, work was started to remove the load leveler system. At 0845 hours the recovery aircraft CH-54, 66-18453, departed Sanford AAF for Rac Soi (VC 14, 0) and arrived on station at 0950 hours. At 1000 hours all components were removed from 429 with exception of the main rotor head and blades, which were rigged for removal. At this time aircraft 453 was called forward from Rach Soi to the recovery site, along with a light fire team to fly cover. Upon arrival 453 came to a high hover over 429, extended 30 feet of cable and was hooked to the main rotor head of 429. Blade socks had been attached to 4 of the 6 main rotor blades with long ropes. These were secured by personnel on the ground. 453 then proceeded to lift the rotor head off the mast of 429. A main rotor head stand had been placed 50 yards in front of 429 and was supported by 4 sheets of  $\frac{1}{2}$ " plywood to prevent the stand from sinking into the mud. As the rotor head and blades lifted off the mast of 453 hovered forward over the main rotor head and proceeded to lower the entire assembly onto the head stand while the ground personnel guided the rotor head and blades exactly into place. The entire operation took about 10 minutes and was accomplished with no damage to either the rotor head or any of the main rotor blades. As soon as the rotor head was released 453 departed back to Rac Soi for refueling while the ground crew proceeded to remove the main rotor blades from the rotor head and rig the slings and clevis on 429 for the actual extraction. It should be mentioned here that all ground personnel were issued and wore goggles during the periods when 453 was hovering in the recovery area. Working directly under the 120mph rotor wash in the harvested rice paddy would have been almost impossible without them due to blowing debris. At approximately

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(Cbt) for Refurbished Engine 31 January 1970 RCS CSFOM-65 (R2)(U)

1045 hours 453 returned to the recovery site and hooked up to 429. After hovering for a few minutes to locate 429 from the mud the pick-up was accomplished and 453 departed for the 28 mile flight to Can Tho. The aircraft weight of 429 was 17,500 at this time. The UH-1D preceded 453 to Can Tho to alert the airfield while the remainder of the ground crew began loading all the tools and equipment in to the CH-47 and prepared the main rotor head and stand to be sling loaded underneath the CH-47. Upon arrival of 453 and 429 at Can Tho it was decided to remove both engines from 429 to further decrease the weight. This decision was made because of a 20 knot head wind all the way back to Sanford AF. As soon as 453 set 429 down at Can Tho and shut down the crew members of 453 started to disconnect the engines of 429. A long boom wrecker was borrowed from the 271st Aviation Company (Asst Spt Hel) in order to remove the engines from 429 and set them down in a protected area. At this time the CH-47 arrived at Can Tho with the ground team, special tools, equipment, and main rotor head and stand. The CH-47 was refueled and dispatched to Sanford AF, less the ground crew, to unload the items on board plus the main rotor head and head stand. It would then pick up two engine stands and return to Can Tho. In the meantime, a second CH-47 was borrowed from the 271st Aviation Company (Asst Hel) and the ground team returned to the recovery site to pick up the 6 main rotor blades. These were brought to Can Tho. At 1545 hours 453 picked up 429 at Can Tho and departed on a leg of 17 miles to Lang Long where 453 refueled. The next leg was 31 miles to Tan An it was 32 miles to Di An and here once again 453 refueled. At 1800 hours 453 departed Di An, and at 1830 hours lowered 429 down on the "Crane pad" at Sanford AF, a flight route of 112 nautical miles from the recovery site. On each leg LTC Okarski and Major Silva preceded 453 into the airfield to insure that preparations had been made as scheduled. They also carried the Pathfinder who would climb up on 429 and hook it up to 435 after each refueling. He was then picked up by the UH-1D and rushed ahead to the next refueling point. While 453 was making its way to Sanford AF the CH-47 had returned to Can Tho with the two engine stands and the ground crew placed the two engines on the stands, loaded them into the CH-47 along with the 6 main rotor blades, 4 tail rotor blades and themselves. They departed Can Tho for Sanford AF and closed at that location at 1925 hours.

(d) The entire mission took 12.5 hours to accomplish and covered approximately 225 nautical miles round trip. The key to the success of this particular mission was the planning session that took place the night of the 13th. All key personnel must be present initially in order to understand the complete plan from the start to finish. Following this general session, detailed planning by maintenance, operations and flight crews can be done independently. A tendency must be overcome

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AVIATION-E

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to take too many people on the ground team. They must be the most experienced personnel in the unit, willing to work hard, and in a small enough group to be controlled easily. Each man must know exactly what he is going to do as soon as he arrives at the recovery site as time is wasted if the briefing is held after arrival. Goggles, drinking water, a radio, smoke grenades, and at least one Pathfinder are items that although not directly related to the preparation of the aircraft for extraction, are invaluable to the overall operation. Sheet plywood is a valuable tool in muddy, swampy areas in order to provide support for parts, maintenance stands, tool boxes and other equipment. The first hand knowledge of the area, ground conditions and condition of the aircraft gained by at least one person visiting the site as soon as possible aids greatly in planning the operation. This operation was completed successfully because of the tremendous effort put forth by all members of this unit that were involved plus the outstanding cooperation received from the 164th Aviation Group (Cbt.), 21st ARVN Division from the 162d and 240th Aviation Companies (Alt Hel).

2. (C) Section 2 Lessons Learned: Commander's Observations, Evaluations, and Recommendations:

a. Personnel:

(1) MOS 71P20

(a) OBSERVATION: Flight Operations Specialists should have enough training to be able to assume this position after a 30 day familiarization.

(b) EVALUATION: It has been found that there is a critical shortage of MOS 71P20 as these personnel are not available in the command. All flight operations specialists within this unit have been trained on the job. After five months these personnel have progressed to the point of being capable of doing the job required without constant supervision. At the eight month level they are capable of fulfilling the position efficiently for the remainder of their tour.

(c) RECOMMENDATIONS: An increase flow of school trained flight operations specialists would greatly enhance the operation of aviation units within RVN.

(d) COMMAND ACTION: A continued on-the-job training of personnel for this critical MOS shortage.

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AVB/CA-EC

13 February 1970

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion  
(Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

(2) Administration Officer

(a) OBSERVATION: The heavy administrative workload which this unit carries demands the inclusion of an administration officer in the TOE.

(b) EVALUATION: This unit has found that the heavy workload of administrative work which the unit is responsible for, the executive officer is required to spend an excessive amount of time on administrative problems. It is felt that the inclusion of an administration officer would be beneficial. It would enable the executive officer to function as the commanding officer's assistant and also aid him in maintaining proficiency in flying. Because of his workload, he is limited on the amount of time he can fly.

(c) RECOMMENDATION: That the TOE be revised to include the position of administration officer.

(d) COMMAND ACTION: The executive officer is functioning as administration officer and executive officer.

(3) Night Observation Device Operator

(a) OBSERVATION: A trained light operator is needed in units that are involved in Night Hawk operations.

(b) EVALUATION: Because of the function that the searchlight plays in Night Hawk missions, trained light operators should be assigned or attached to the unit. At this time, this unit is using the crew chief as the light operator. This means that he is not able to man his guns. This unit has tried this system, using its own personnel, and it has worked well. Using presently assigned personnel is not practical because each man assigned to the unit is slotted. Training of these personnel would be no problem, but it would require at least two(2) operators per light system used. It would be imperative that these individuals be rotated nightly, because of the high fatigue factor.

(c) RECOMMENDATIONS: That additional personnel be assigned or attached to units that employ night operations for the purpose of being light operators. They should also be awarded flight pay and put on valid crew-member flight status.

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(d) COMMAND ACTION: This unit has, at times, used its own personnel for the purpose of light operators. When this is not possible, the crew chief acts as light operator.

b. Intelligence: None

c. Operations:

(1) Rescue Hoist

(a) OBSERVATION: The use of a rescue hoist has proven to be a great advantage in the extraction of personnel in deep jungle areas.

(b) EVALUATION: In the past, this unit has been using McGuire rigs for the extraction of personnel in dense jungle areas. This is a very critical operation because of the closeness the aircraft must work to the jungle canopy. Also, once the McGuire rig is loaded, the aircraft must come straight up at least 175 feet to clear the trees. This is a minimum safe distance required to keep the McGuire rig from dragging in the jungle canopy. The McGuire has a tendency to catch in trees easily and requires someone to handle the ropes. There is a chance that the ropes from the McGuire rig can become entangled in the tail rotor of the aircraft. When using the McGuire rig, both the crew chief and gunner must leave their guns to assist the pilot in positioning the rig. For these reasons, this unit feels a hoist is much better for this type of operation. The hoist is much faster and easier to operate. It has 250 feet of usable cable, whereas the McGuire rig only has 100 feet of usable rope. The aircraft does not have to operate in such close proximity to the trees and will require less power in pulling the personnel out. The period of time the aircraft must remain in a stationary position is shortened, thus making the operation more safe. The danger of dragging the personnel through the trees does not exist with the hoist.

(c) RECOMMENDATIONS: That all units employing this method of operation be allotted a sufficient number of hoists.

(d) COMMAND ACTION: This unit has requisitioned two (2) hoists, which will be mounted as soon as they are available.

d. Organization: None

e. Training: None

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13 February 1970

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion  
(Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

f. Logistics:

(1) Fuel

(a) OBSERVATION: Due to this unit's mission, requiring two platoons to operate from remote locations, 70-100 miles from base camp, abnormal POL supply problems/difficulties have been experienced.

(b) EVALUATION: This unit's mission requires two platoons to be operational out of several small, remote locations as far as 100 NM from the parent unit. Due to the remoteness of the locations, and their almost complete lack of facilities, the parent unit is required to constantly arrange for the resupply of POL. This unit does not have a POL resupply capability, which poses a constant problem. Due to the tactical importance and urgency of this particular mission, delays in POL resupply absolutely must be kept to a minimum. Air Force resupply has frequently proven to be inadequate due to the long reaction time required to arrange for the delivery of POL, and once the POL has been delivered, it is used by other units on an unscheduled and emergency basis.

(c) RECOMMENDATION: That POL resupply responsibilities be placed on ASD's or other organizations which possess the capability and that the ASD's establish a relatively permanent refueling area at these remote sites, thereby assuring a constant supply of POL.

(d) COMMAND ACTION: This unit is presently experimenting with various ways of improving POL resupply, until an organization with a POL resupply capability is directed to assume the responsibility.

g. Communications:

(1) FM and UHF Communication

(a) OBSERVATION: That FM and UHF radio communication between flight operations and mission aircraft break down on an average of four times daily.

(b) EVALUATION: Primary cause of this communication break down is the radios at operations overheat due to a lack of temperature control, to the point of losing their full capability.

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SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion  
(Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

(c) RECOMMENDATION: Highly recommend that all flight operations facilities be air conditioned.

(d) COMMAND ACTION: Air Conditioning has been requested for the flight operations section area, however, there has been negative results. Radios have been placed in the area that circulates the most air around them, and holes have been cut in walls of the building in an attempt to keep them cool. In addition fans are placed in front of the sets to aid circulation. Four spare FM radios are on hand to immediately replace a set that is fading in power.

(2) RT-524 and the KY-B6

(a) OBSERVATION: Heat has caused many malfunctions in the operation of the RT-524 radio and the radio voice security device, the KY-B6.

(b) EVALUATION: This unit is required to monitor several frequencies in the operations section. It is also required to have the capability of monitoring and talking in the secure mode. Because of the high temperatures, this unit has constant radio failures with the RT-524 on the KY-B6. Fans are being utilized to their fullest advantage but the radio problem still exists. According to USARV Regulation 420-54, a radio operations center is authorized to be air conditioned. It is felt that if the communications section was air conditioned, it would eliminate the dust and decrease the temperature twenty or twenty-five degrees, thus, eliminating a great number of radio failures.

(c) RECOMMENDATIONS: That air conditioners be made readily available for communications centers.

(d) COMMAND ACTION: This unit submitted a job order request (DA Form 2701) on 15 December 1969, requesting an air conditioner be installed in this unit's communications center. This request was disapproved on 5 February 1970.

h. Materiel:

(1) Double Visor kits for the SPH-4 Flight Helmet

(a) OBSERVATION: The configuration of the SPH-4 helmet is unacceptable for combat operations. The U.S. Navy currently stocks a double visor kit, FSN 6-RD 8475-792-5706, which fits the SPH-4 flight helmet.

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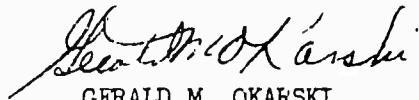
AVBACA-EC

13 February 1970

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(b) EVALUATION: It is felt by this unit that the single visor kit, currently being installed on all flight helmets issued, could contribute to a loss of sight. Many missions flown in combat zones are launched before dawn and return after sunset. This necessitates the use of a clear visor. During daylight hours of flight, the sunset would require the individual aviator to change to a tinted visor or wear sunglasses under the clear visor. The first recommendations would not be practical, especially during the flight, because the helmet must be removed to change visors, thus causing a safety hazard and a direct violation to Army Regulation 95-5 and 1st Aviation Brigade Regulation 385-10. The wearing of sunglasses, while being a more practical solution to the problem, also has many disadvantages. The main one being the gaps between the wearer's head and the earphone seals caused by the sunglasses. This gap destroys the acoustic ability of the SPH-4 helmet, thereby rendering this helmet design almost totally ineffective. The second factor of consideration is the aviator's comfort. On many individuals the discomfort caused by wearing sunglasses with the SPH-4 helmet is severe. This distracts the aviator and could easily cause a safety hazard. It is felt that if the U.S. Army could fit the SPH-4 helmet with a double visor kit similar to the U.S. Navy kit, FSN to rd 8475-792-5706, the situation would be remedied, thereby possibly saving an aviator's sight due to exploding plexiglass caused by either enemy action or some unforeseen event. The SPH-4 helmet would be totally effective during day or night operations.

(c) RECOMMENDATIONS: That USABAAR evaluate the possibilities of the use of a double visor kit for flight helmets and that double visor kits be made available at the earliest opportunity.



GERALD M. OKARSKI  
LTC, IN  
Commanding

6 Incl

1. Organization
2. Acft Status
3. Operational Statistics
4. Ammo Expenditures
5. ~~Reenlistment Statistics for Period~~
6. Memorandum of Understanding

Incl 5 wd HQ, DA

DISTRIBUTION:

- 5-CO, 12th Avn Gp (Cbt), ATTN: AVBACA-SC
- 2-CINCUSARPAC, ATTN: GPOP-DT, APO 96558
- 3-CG, USARV, ATTN: AVGHGC (DST), APO 96375
- 2-CG, 1st Avn Bde, ATTN: AVBAGC

WBACA-30 (13 Feb 70) 1st Ind

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion (Combat) for Period Ending 31 January 1970 (C. C. RPT-65 (2) v. 2)

1A, h2, 12th Avn Gr (Cht), AFN 6266 24 Feb 70

TO: Commanding General, 11 Field Force (Future), AFN 76000

1. (U) In accordance with USAF Reg 120-15, subject report is forwarded.
2. (U) Reference paragraph 2a(1). 12th Avn Gr. Figures show the following flight operations specialist strength for the 222d Avn Bn:

	Auth	Asg
71120	18	16

From the above it can be concluded that no shortage of 71120 personnel exists in the 222d Avn Bn.

3. (U) Reference paragraph 2a(2). Recommendations for the inclusion of an administrative officer into the TOE should be made in the form of a request for TOE change.

4. (U) Reference paragraph 2a(3). This Headquarters concurs with this recommendation and has submitted the request for flight day and flight or w status through normal channels.

5. (U) Reference paragraph 2g(1) and (2). Heat is a definite factor in the operation of communications equipment, particularly the TSEC/TY-38 (IV-36). Air conditioning does greatly improve the reliability of the system. An attempt could be made to secure a portable air conditioner from USAF W C-4 on 180-day loan. There are expected due-ins on new cables that will allow the T-524 to be used in conjunction with the TSEC/TY-38, which is less sensitive to heat. This heat problem is recognized by USAF and the USAF Logistics people, and other corrective steps are being investigated.

END THIS COMMENDATION:

*John W. Johnson*  
JOHN W. JOHNSON  
Major, Infantry  
Adjutant

AVFBC-RE-H (13 Feb 70) 2nd Ind

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion (Combat) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

DA, HQ II FFORCEV, APO San Francisco 96266 .JF 1970

THRU: Commanding General, 1st Aviation Brigade, ATTN: AVBA-C, APO 96307

Commanding General, US Army Vietnam, ATTN: AVHGC(DST), APO 96375

Commander-In-Chief, US Army Pacific, ATTN: GPOP-1T, APO 96558

TO: Assistant Chief of Staff for Force Development, Department of the Army, Washington, D.C. 20310

This headquarters has reviewed and concurs with the Operational Report - Lessons Learned of the 222d Aviation Battalion (Combat) for the period ending 31 January 1970, as indorsed, with the following comment: Reference 1st Indorsement, paragraph 3. The 12th Aviation Group has instructed the 222d Aviation Battalion to submit a request for a TOE change.

FOR THE COMMANDER:

W. L. Boshans  
W. L. BOSHANS  
CPT, AGC  
12th AG

AVBAGC-0 (13 Feb 70) 5d Ind

SUBJECT: Operational Report-Lessons Learned, 222d Aviation Battalion  
(Combat) for Period Ending 31 January 1970, AGC CSFOR-65 (12) (L)

DA, HEADQUARTERS 1ST AVIATION BRIGADE, APO San Francisco 96384

16 MAR 1970

THRU: Commanding General, United States Army Vietnam, ATTN: AVFMS-DST,  
APO 96375  
Commander-in-Chief, United States Army Pacific, ATTN: CPOP-DT,  
APO 96508

TO: Assistant Chief of Staff for Force Development, Department of the  
Army, Washington, D.C. 20310

1. This headquarters has reviewed subject report and concurs with the  
contents as indorsed.

2. The following additional comments are considered pertinent:

a. Paragraph 1g, pages 7 and 8, addresses the problem of a shortage  
of Communications Chief MOS 31G40 and Field Wireman MOS 36K20. These are  
critical MOS's in the 1st Aviation Brigade. 12th Aviation Group (Combat)  
is at 68% fill in MOS 31G40 and the Brigade is at 80% fill. In MOS 36K20  
both the Brigade and 12th Aviation Group (Combat) are at 67.5% fill.  
This headquarters has advised United States Army Vietnam of subject MOS  
shortages and is closely monitoring distribution of MOS 36K20 and MOS  
31G40 within the Brigade.

b. Paragraph 2f(1)(c), page 16, addresses the problem of POL logistics  
for two platoons that operate 70 - 100 miles from their parent unit. The  
recommendation that POL resupply responsibility be placed on the ASD is  
inappropriate. The ASD's are not equipped or staffed to perform POL  
resupply. This headquarters is advising 12th Aviation Group (Combat) of  
the 164th Aviation Group (Combat) approach to this recognized problem.  
Basically, the 164th Aviation Group (Combat) arranged for the supported  
unit to assist in POL resupply. This headquarters will make a staff visit  
to the 222d Aviation Battalion (Combat) to assist in resolving this POL  
logistics problem.

c. Paragraph 2h(1), pages 17 and 18, addresses the need for a double  
face visor for the SPH-4 flight helmet. This headquarters will request  
through USARV that USABAIR evaluate the use of the Navy double visor kit  
which fits the SPH-4 and that kits be made available as soon as possible.

FOR THE COMMANDER:



ARTHUR W. LITTLE

CPT AGC

Asst AG.

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AVHGC-DST (13 Feb 70) 4th Ind

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion (Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R)(U)

Headquarters, United States Army, Vietnam, APO San Francisco 96375 247-170

TO: Commander in Chief, United States Army, Pacific, ATTN: GPOP-DT, APO 96558

1. (U) This headquarters has reviewed the Operational Report-Lessons Learned for the quarterly period ending 31 January 1970 from Headquarters, 222d Aviation Battalion (Cbt) and concurs with the comments of indorsing headquarters.

2. (C) Comments follow:

a. (C) Reference item concerning "Night Observation Device Operator", page 14, paragraph 2a(3), and paragraph 4, 1st Indorsement: nonconcur. The training of Night Hawk Searchlight/Night Observation Device operators can be accomplished by an OJT program. Units which have been evaluating the Night Hawk system have been utilizing MTOE door gunners, who are already receiving noncrewmember flight pay, to augment the Night Hawk crews. This system appears to be satisfactory in view of the fact that only a limited amount of operator training is required. No action by higher headquarters is recommended.

b. (U) Reference item concerning "Rescue Hoist", page 15, paragraph 2c(1): concur. Each assault helicopter company in USARV is authorized two (2) rescue hoists (FSN 1680-179-6047). A unit may obtain these by submitting a requisition to its supporting DSSA. This information was passed to the 222d Aviation Battalion. No action by higher headquarters is recommended.

c. (U) Reference item concerning "Double Visor Kits for the SPH-4 Flight Helmet", page 17, paragraph 2h(1), and paragraph 2c, 3d Indorsement: concur. The Safety Division, USARV Aviation Section will request USABAAR to evaluate the double visor kit for possible Army procurement.

FOR THE COMMANDER:

*L. D. MURRAY*  
L. D. MURRAY  
CPT, *ASST ADJUTANT GENERAL*  
Assistant Adjutant General

Cy furn:  
1st Avn Bde  
222d Avn Bn

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DOD DIR 5200.10

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GPOP-DT (13 Feb 70) 5th Ind (U)

SUBJECT: Operational Report of HQ, 222d Aviation Battalion (Combat)  
for Period Ending 31 January 1970, RCS CSFOR-65 (R2) (U)

HQ, US Army, Pacific, APO San Francisco 96558 1 APR 1970

TO: Assistant Chief of Staff for Force Development, Department of the  
Army, Washington, D. C. 20310

This headquarters concurs in subject report as indorsed.

FOR THE COMMANDER IN CHIEF:

  
C. L. SHORTT  
CPT, AGC  
And AG

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AVBACA-EC

SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion  
(Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

13 February 1970

Incl 1 to 222d Avn Bn (Cbt) ORLL dtd 13 February 1970

ORGANIZATION

222d AVIATION BATTALION (COMBAT)

Headquarters Company, 222d Aviation Battalion (Combat)

87th Quartermaster Detachment

315th Aviation Detachment (Divisional)

772d Medical Detachment (OA)

117th Aviation Company (Aslt Hel)

195th Aviation Company (Aslt Hel)

92d Medical Detachment (OA)

240th Aviation Company (Aslt Hel)

273d Assault Support Helicopter Company (ASHC) (Hvy)

652d Transportation Detachment (Hvy Hel)

Regraded unclassified when separated  
from classified inclosure.

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Incl 1

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Incl 2

222d Aviation Battalion (Combat) DRILL dtd 13 February 1970

222D AVIATION BATTALION (COMBAT) AIRCRAFT STATUS  
31 January 1970

	<u>UH-1C</u>		<u>UH-1D/H</u>		<u>CH-54A</u>	
	<u>AUTH</u>	<u>ASGD</u>	<u>AUTH</u>	<u>ASGD</u>	<u>AUTH</u>	<u>ASGD</u>
Hq, 222d AVN BN (CET)	0	0	2**	2	0	0
117TH AHC	8	6	23	20	0	0
195TH AHC	8	6	23	20	0	0
240TH AHC	8	7	23	21	0	0
273D ASHC	0	0	0	0	9	14***

\*\* Bn Auth 3 OH-6A by TOE - Special Auth by 1st Avn Bde authorizes 2 UH-1D in lieu of OH-6A's

\*\*\* 2 - Main Floats

\*\*\* 3 - Atchd from 478th Avn Co (Hvy Hel)

<sup>25</sup>  
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OPERATIONAL STATISTICS FOR PERIOD ENDING 31 JANUARY 1970

<u>SUBORDINATE UNIT</u>	<u>SORTIES FLOWN</u>	<u>TROOPS LIFTED</u>	<u>CARGO TONS LIFTED</u>	<u>ENEMY KILLED KILLED</u>	<u>STRUCTURES DESTROYED</u>	<u>SAMPAINS DESTROYED</u>	<u>ACFT CONFIRMED</u>	<u>ACFT DOWN</u>	<u>ACFT DESTROYED</u>
HHC	266	167	0	0	0	0	0	0	0
117TH	18,508	14,108	20	48	2/24	13/82	0	5**	0
195TH	24,554	18,614	72	0	0	0	1**	0	2**
240TH	30,929	65,793	10	84	78/136	7/11	0	2**	0
273RD	4,073	0	11,475.5	0	0	0	0	8**	0

\* - UH-1H  
 \*\* - UH-1C  
 \*\*\* - CH-54A

Incl 3

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AMMUNITION EXPENDITURES FOR PERIOD 31 OCTOBER 1969 - 31 JANUARY 1970

	<u>7.62</u>	<u>5.56</u>	<u>40MM</u>	<u>2.75FRKT</u>	<u>50CAL</u>
117th Avn Co (Aslt Hel)	129,500	0	0	350	0
195th Avn Co (Aslt Hel)	364,500	0	6880	1987	0
240th Avn Co (Aslt Hel)	608,550	1500	0	6198	3800
273rd Avn Co (Hvy Hel)	0	15,422	0	0	0

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MEMORANDUM OF UNDERSTANDING

BETWEEN

Commanding General, Royal Thai Army Volunteer Forces

and

Commanding General, 1st Aviation Brigade, United States Army, Vietnam

1. GENERAL: Pursuant to the authority granted by their respective services, the Commanding General, Royal Thai Army Volunteer Forces (RTAVF) and the Commanding General, 1st Aviation Brigade, enter into the following Memorandum of Understanding. This document defines the relationship between members of the RTAVF Aviation units and units of the 1st Aviation Brigade, U.S. Army.

2. PURPOSE: The purpose of this Memorandum of Understanding is to permit pilots of the RTAVF to maintain flight proficiency in the UH-1D and H model helicopter and gain experience in U.S. Army Aviation doctrine and techniques. Permission is granted authorizing RTAVF pilots to fly with elements of the 12th Aviation Group (Combat), 1st Aviation Brigade, under agreements outlined in paragraph 3 below. Direct coordination is authorized between the RTAVF and the 222d Aviation Battalion (Combat), 12th Aviation Group (Combat).

3. IT IS AGREED THAT:

a. Only those RTAVF pilots who have been rated in the UH-1D/H helicopter by the U.S. Army Aviation School qualify in this agreement. Waivers may be considered upon application to the Commanding General, 1st Aviation Brigade, when other agreements contained herein are met.

b. RTAVF pilots will adhere to rules, regulations and policies applicable to U.S. Army, Vietnam (USARV) Aviators and will have a complete understanding of same.

c. RTAVF pilots will fly only with USARV Aviators designated as Aircraft Commander and according to the following:

(1) RTAVF pilots must receive proficiency flight checks as prescribed by 1st Aviation Brigade Regulation 95-6 prior to flying missions in USARV aircraft. A certificate to that effect will be forwarded to the RTAVF by the unit conducting the flight check.

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SUBJECT: Operational Report - Lessons Learned, 222d Aviation Battalion (Cbt) for Period Ending 31 January 1970 RCS CSFOR-65 (R2)(U)

(2) Command of the aircraft will be retained by the USARV aviator.

(3) RTAVF pilots are permitted to fly on all missions flown by units of the 1st Aviation Brigade, in support of RTAVF.

(4) In event of emergency, RTAVF pilots may fly in support of any free world forces.

(5) RTAVF pilots will limit themselves in night flying operations to the support of RTAVF only.

d. RTAVF pilots must be able to speak and understand the English language.

e. Flight physical standards of each agency are acceptable to the other.

f. Individual flight records will be maintained by the respective agencies.

g. Neither force will be held responsible to the other in event of lost life or property as a result of an aircraft accident or hostile fire. Both forces are entitled to the provisions for search and rescue of downed air crews.

4. RECESSION: This Memorandum of Understanding may be rescinded at any time by the incumbent Commanding General of either headquarters represented herein.

SWASDI MAKKAROON  
Major General RTA  
Commanding General  
Royal Thai Army Volunteer Forces

ALLEN M. BURDETTE, JR.  
Major General, USA  
Commanding General  
1st Aviation Brigade

DISTRIBUTION, 6 ORIGINALS:  
3 CG, RTAVF  
3 CG, 1st Avn Bde

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*James D. Danielson*  
JAMES D. DANIELSON  
MAJ AR  
S3

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Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the report is classified)

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